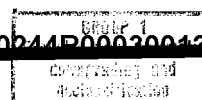


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JH:lj 27 Oct 70 ~~SECRET~~  
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GENERAL DATA REQUIRED: *(BFS + other OL elements)*

1. Desired standards for construction
2. Required completion date & beneficial occupancy considerations
3. Date facility will be operational
4. Amount of programmed funds and constraints
5. Design funds - amount and constraints
6. Proposed Design Agency
7. Proposed Construction Agency (if different from item 6)
8. Available maps, topography, other site data
9. Documentation on site availability
10. Security requirements
11. General requirements of clearing, grading, drainage, protective (other than security)
12. General requirements for new roads; within site; outside site
13. Any bridges required - type and nature
14. Number and type of personnel required at site
15. Fill and disposal areas
16. Availability of sewerage
17. Garbage and trash service availability
18. *landscaping Plan*



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18. Availability of Fire Protection
19. Availability of Telephone and other communication services
20. Availability of water supply
21. Availability of other required utilities. What utilities  
required?
22. Civil Defense facilities required? *(with SK-DD/S)*

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SPECIFIC BUILDING STRUCTURAL REQUIREMENTS

1. Restrictions on column <sup>spacing</sup> in operational and/or other areas, *extent of clear areas required*
2. Floor loads, particularly in equipment areas, *anchoring or floating requirements*
3. Roof loads such as:

*BPS*

- a. snow
- b. Antennas and/or radomes, etc.

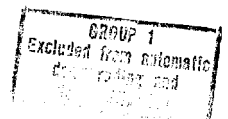
*BPS*

- c. Incinerator, elevator, or other equipment  
(fans & etc.)

*BPS*

4. Max. wind and snow/ice loads
5. Requirements for sleeves thru walls, partitions, floors and roof, *filtering and baffling*
6. Requirements for duct entrances below grade into cable vaults or other areas
7. Requirements for other utilities service entrances  
(gas, steam, water, etc.)
8. Requirements for below grade entrances for personnel, parking, other uses.
9. Requirements for crane to handle heavy equipment (at docks, etc.)
10. *or secure area*  
Vault requirements
- BPS* 11. Electrical bonding and grounding provisions relative

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~~SECRET~~ 12. Expansion capability; how provided?

SPECIFIC BUILDING MECHANICAL REQUIREMENTS:

1. Personnel distribution throughout building;  
max & min numbers; any unusual <sup>or</sup> frequent usage  
of doors.
2. Heat loads of special purpose equipment;  
hourly schedule of equipment operation, if  
intermittant
3. Environment control required; temperature,  
(cleanliness (filter)  
humidity; specific areas *identified*
4. Equipment room location; type fuel, fuel storage,  
source, etc.
5. Heating:
  - a. Areas served; design conditions; security of  
ducts; control locations, zone requirements,  
emergency back up.
  - b. Expansion and/or reserve capability required.
6. Air Conditioning:
  - a. Operational requirements <sup>BPS</sup> [and comfort requirements]
  - b. Single or multiple system - standby emergency req'd (A/C System only - See electrical  
sheets for generator requirements).
  - c. Areas served, design conditions; security of ducts;  
control locations, zone requirements
  - d. Expansion and/or Reserve capability required.
7. Ventilation:
  - a. Areas requiring mechanical <sup>localized special</sup> ventilation (toilets, storage

- b. Special systems for separately exhausting equipment  
giving off disagreeable or toxic fumes

8. Fire Protection:

- a. Areas served
- b. Sprinkler system required (freezing problem? *or soaking*)
- c. Hose & siameese connection locations
- d. Hand extinguishers/locations/types
- e. Types of combustible <sup>*or toxic*</sup> materials; *where held, quantity, means of use or disposal*
  - 1) wood and paper
  - 2) chemicals and distillates
  - 3) electrical
  - 4) explosive vapors
- f. Expansion of system(s) and/or reserve capability req'd

9. Plumbing:

- BPS* a. Restrooms (male, female; numbers of personnel)
- BPS* b. Showers ~~male~~, female, numbers of personnel
- c. Special decontamination showers? *or wash areas?*
- BPS* d. Water coolers - locations
- e. Service sinks & laboratory requirements.

10. Incinerator and/or other <sup>*etc*</sup> destructors

- a. Required/desired number, types, location & capacity,  
(future expansion)
- b. Type material to be handled (classified, nonclassified trash,

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- c. Recovery systems (silver, etc)

11. Rooftop Requirements *BPS*

1

- a. Access to roof (interior, exterior)
- b. Penetration for ducts, fans, pipes, vents, etc.
- c. Cooling towers, elevator penthouses, other  
mech, reqmts,

12. Crane or Hoist Requirements; *BPS*

- a. Material handling
- b. Dock levelers
- c. Freight elevators
- d. Support to utility systems (generators, A/C units, fans  
etc.)

13. *Compressed Air*

14. *Gas*

15. *Other mechanical systems.*

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*Too Distant Matter 1. and 2. for use at this time.*

## SPECIFIC BUILDING ELECTRICAL REQUIREMENTS

### 1. General

- a. Connected load (KVA, KW, PF); separated into utility, lighting, and technical equipment loads, if possible.
- b. Maximum demand (KVA, KW, PF); separated into utility lighting and technical equipment
- c. Electric Power Characteristics required (Is more than one type of service required?)

	<u>Type A</u>	<u>Type B</u>	<u>Type C</u>
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Voltage(s)

Frequency'

Phases

Regulation

Reliability

Expansion/Reserve Capacity

UG/OH Service desired

### *BPS* d. Electric Power Service Available

	<u>Type A</u>	<u>Type B</u>	<u>Type C</u>
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Voltage(s)

Frequency

Phases

Regulation



d Continued: Type A Type B Type C

Reliability

Capacity

UG/OH Service

Distance to connection point

Is available service acceptable?

e. Is Prime Power Plant Required?

Voltage

Frequency

Phases

No & size of individual units

Sole source considerations:

Expansion/reserve capacity

Manual start (air, electric): Autostart; no-break?

Need single line diagram of proposed system

f. No-break (UPS) or Autostart Equipment Required (if

not already listed)

Voltage

Frequency

Phases

No and size of individual units

Sole source considerations

Expansion/reserve capacity

f Continued

Attach single line diagram

Parallel operation with Prime Power source

- g. Emergency/Standby Power Required (if not listed above) (same data required as for f above.
- h. Frequency converters, inverters required? Obtain details.
- I. Source of Power Generating Equipment and related major switchgear. GFEGI/GFECI/CFECI
- j. Main Power Panels/Load Centers (preferred locations, expansion/reserve capacity, GFE/CFE
- K. Grounding requirements
- l. Shielding or filter requirements
- m. Requirement for MG Set to isolate technical load from power line transients.
- n. Special conditions (explosive or corrosive atmosphere, abnormal dust condition, etc.)
- o. Sleeves (roof, wall, partitions, floors)
- p. UG Duct Entrances/manholes/hand holes.

2. Power

- a. Convenience outlets; type, distribution, height above floor
- b. Clock outlets; type, distribution, height above floor
- c. special outlets; type, location, GFE/CFE, AC/DC

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- d. Special Circuits; DC, special frequency, emergency, etc.
- e. Roof and other outside outlets for lighting, maintenance, etc.
- f. Timer or other relay-controlled receptacles or circuits.

3. Lighting:

- a. Interior lighting (intensity in different areas, type, control, special considerations) *- including photographic safe lights, door interlocks, etc.*
- b. Interior Emergency lighting (type, control, location) Can rechargeable vented or sealed battery type lights be used.

*BPS* c. Emergency exit (and stairwell) lighting

*BPS* d. Security lighting (if attached to building or controlled from bldg)

*BPS* e. Timer or other relay-controlled lighting (*i.e., photographic*)

4. Alarm Systems *BPS*

- a. Fire alarm (type, location, interconnection w/master system)
- b. Security alarm (type, locations, interconnections, electric door locks)
- c. Smoke detection system (type, locations, interconnections)
- d. other

5. Communications and Signal Wiring

- a. Telephone System (wiring and conduit, or conduit only; interconnect with commercial or other external system; location and type of instruments)
- b. Intercom System (wiring and conduit, or conduit only; interconnect with any other system; location and type of instruments)

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- c. RF, TV, or similar distribution system?
  - d. Special annunciator or other Signal System? Timeclock  
or Watch Stations?
6. Other Considerations:
- a. Shielded Enclosures (GFEFI/GFECI/CFECI, size, location,  
parent room or separate A/C and power systems; space  
provision for A/C and power equipment and power line  
filters; clear dimensions)
  - b. Placement or other installation constraints on power and  
telephone service entrance, power feeders and commo/signal  
cable runs.
  - c. Pneumatic tube system (or conveyor system)
  - d. Closed circuit TV
  - e. Rooftop antennas and/or Radome
  - f. Interior/exterior roof access
  - g. Underfloor raceways
  - h. Cable trays
  - i. Misc.

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SPECIFIC EXTERIOR ELECTRICAL REQUIREMENTS

*OL, OS + OC*

1. Location and type of connection to electric power
  - a. Characteristics (voltage, frequency, phases, capacity, exp/reserve capability)
  - b. Substation? (transformers, OH/UG feeders, pad or pole mounted, metering, GFE, CFE, etc.)
  - c. Provision for space feeders and ducts.
  - d. Provisions for emergency/standby power-see bldg electric reqmts.
2. Telephone System
  - a. Characteristics (interconnect w/commercial or other systems; number of lines, provision for expansion, UG/OH?
  - b. Other needs
3. Street lighting (locations, type, control, feeders, voltages, etc)
4. Security lighting (locations, type, control, feeders, voltages, etc)
5. Alarm and other security systems (type, TV, guardhouse and guardpost interconnections)
6. Obstruction lighting requirements
7. Commo antenna considerations.

SPECIFIC EXTERIOR CIVIL REQUIREMENTS

*BPS + other civil elements*

1. Maps and topo available. Survey?
2. Soil borings and data
3. Water table
4. Environmental considerations (storms, wind, snow, temperatures)
5. Water supply
  - a. Potable
  - b. Process
  - c. Fire protection (hydrants)
  - d. Vehicle wash racks and other large uses.
6. Sanitary system
  - a. Sewerage load to be served
  - b. *Adequacy of* existing system adequate?
  - c. Expansion/reserve capability.
7. Roads and parking (how many cars and where)
  - a. Painted parking lanes required?
  - b. Lighted parking area required?
  - c. Sidewalks & pedestrian access.
  - d. Loading (and unloading) docks required. Access?
  - e. Security gate/barrier needed?
  - f. Access and main circulation road networks
8. Security fencing (chain link, illuminated, gates, patrol road?)